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(71)Applicant: **NISSAN MOTOR CO LTD**

(72)Inventor: **NISHIMURA KIMIO**
MATSUYAMA HIDENOBU
TAKENOUCHI MASARU

(54)**BUILT-UP WELDING METHOD BY LASER**

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(57)Abstract:

PURPOSE: To improve and stabilize the quality of built-up welding by preventing penetration of a base material to a cladding side or defects in welding.

CONSTITUTION: While a rotary feeding is imparted to the valve seat 2 of a cylinder head 1, a copper base alloy powder 5 is continuously supplied by a prescribed quantity. The copper base alloy powder 5 is irradiated by a laser beam which is linearly formed through a columnar concave mirror and an integrating mirror provided with a narrow plane mirror as segment, thereby forming a built-up layer of the copper base alloy on the valve seat 2.

